FIG. 1

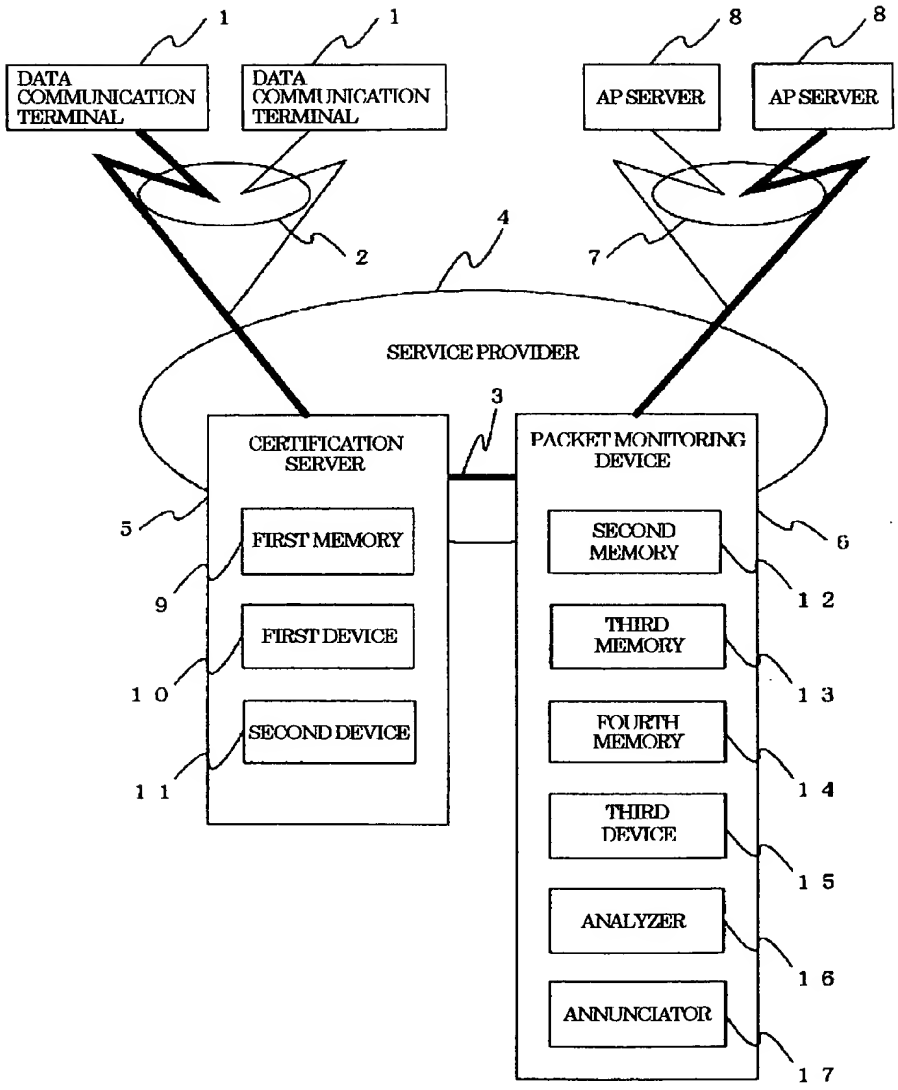

1
1
8
8
DATA COMMUNICATION TERMINAL
DATA COMMUNICATION TERMINAL
AP SERVER
AP SERVER
2
4
7
SERVICE PROVIDER
3
CERTIFICATION SERVER
PACKET MONITORING DEVICE
5
FIRST MEMORY
SECOND MEMORY
6
9
12
FIRST DEVICE
THIRD MEMORY
10
13
SECOND DEVICE
FOURTH MEMORY
11
14
THIRD DEVICE
15
ANALYZER
16
ANNUNCIATOR
17

FIG. 2

OBJECTS	PARAMETER A	PARAMETER B	PARAMETER C	PARAMETER D
ADDRESSES	●	●	●	
SERVICE IDENTIFIER	●		●	
DATA SEQUENCE X		●	●	
CHECK SUM				●

FIG. 3

THRESHOLD PARAMETER	DEFINITION
THRESHOLD A	DURATION AFTER COINCIDENCE
THRESHOLD B	NO. OF COINCIDENCE
THRESHOLD C	USER DATA & HEADER SIZE
THRESHOLD D	SERVICE FEE

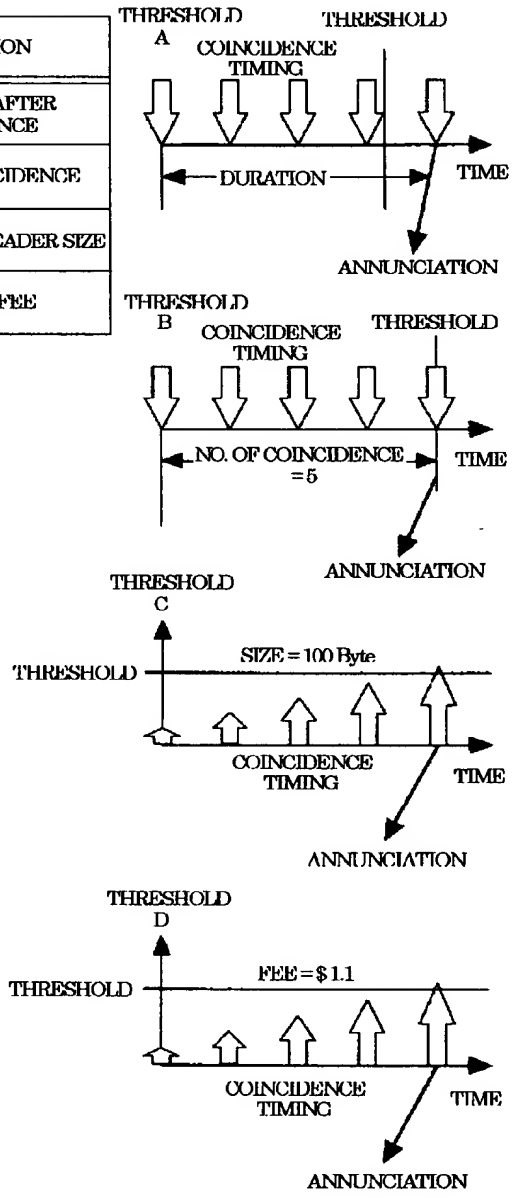


FIG. 4

TABLE ID	USER ID NUMBER	PASSWORD	MONITORING PARAMETER	THRESHOLD PARAMETER	FLAG
1	ID1234	XXXX	A	A	0x1000
2	ID5678	YYYY	B	C	0x2000
3	ID9999	ZZZZ	D	E	0x3000

FIG. 5

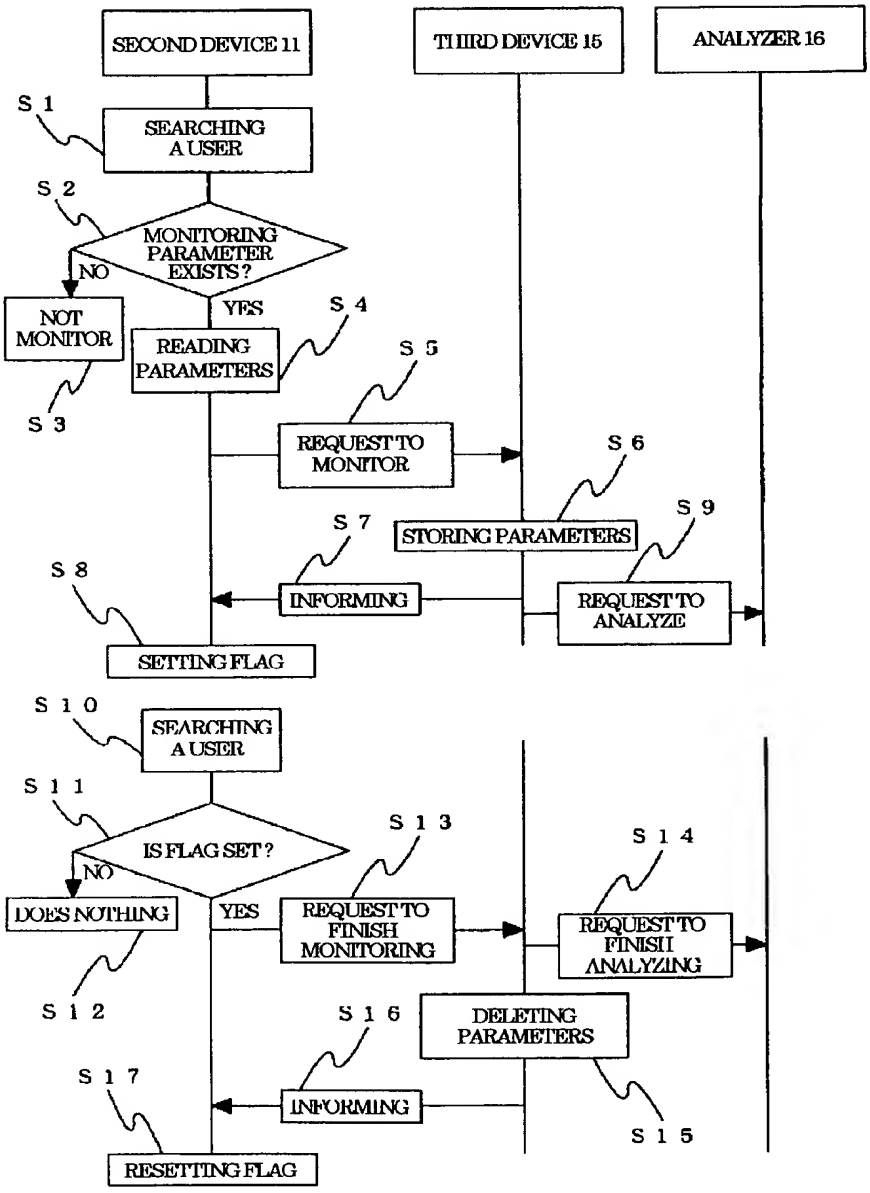
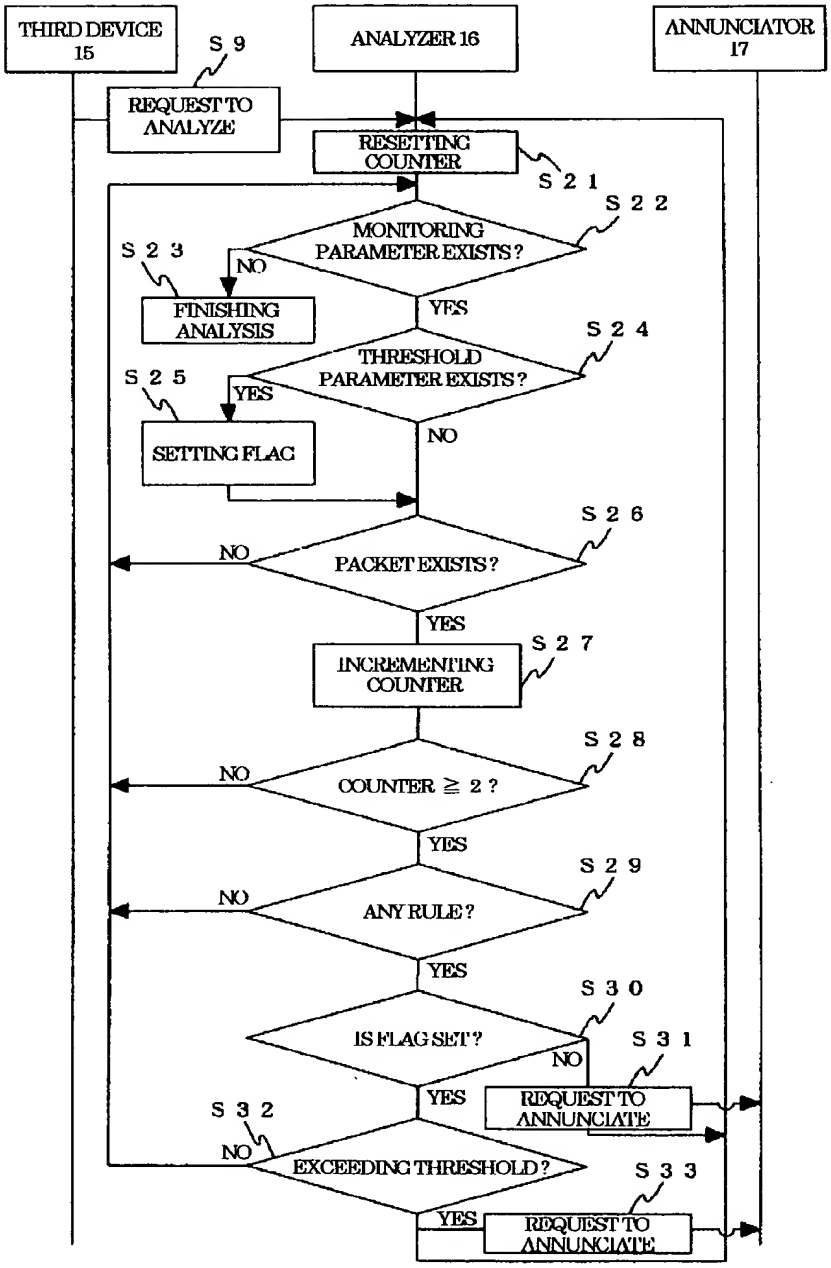

SECOND DEVICE 11
THIRD DEVICE 15
ANALYZER 16
S 1
SEARCHING A USER
S 2
MONITORING PARAMETER EXISTS?
NO
YES
NOT MONITOR
S 3
READING PARAMETERS
S 4
S 5
REQUEST TO MONITOR
S 6
STORING PARAMETERS
S 7
S 8
INFORMING
S 9
REQUEST TO ANALYZE
SETTING FLAG
S 10
SEARCHING A USER
S 11
IS FLAG SET?
NO
YES
DOES NOTHING
S 12
S 13
REQUEST TO FINISH MONITORING
S 14
REQUEST TO FINISH ANALYZING
S 15
S 16
DELETING PARAMETERS
S 17
INFORMING
RESETTING FLAG

FIG. 6


THIRD DEVICE 15
ANALYZER 16
ANNUNCIATOR 17
S 9
REQUEST TO ANALYZE
RESETTING COUNTER
S 2 1
S 2 2
MONITORING PARAMETER EXISTS?
S 2 3
NO
FINISHING ANALYSIS
YES
S 2 4
THRESHOLD PARAMETER EXISTS?
S 2 5
YES
SETTING FLAG
NO
S 2 6
NO
PACKET EXISTS?
YES
S 2 7
INCREMENTING COUNTER
S 2 8
NO
COUNTER ≧ 2?
YES
S 2 9
NO
ANY RULE?
YES
S 3 0
IS FLAG SET?
NO
S 3 1
YES
REQUEST TO ANNUNCIATE
S 3 2
NO
EXCEEDING THRESHOLD?
S 3 3
YES
REQUEST TO ANNUNCIATE

Tsuneyuki KIKUCHI
"Packet Monitoring System"
Q63195
Filed February 21, 2001

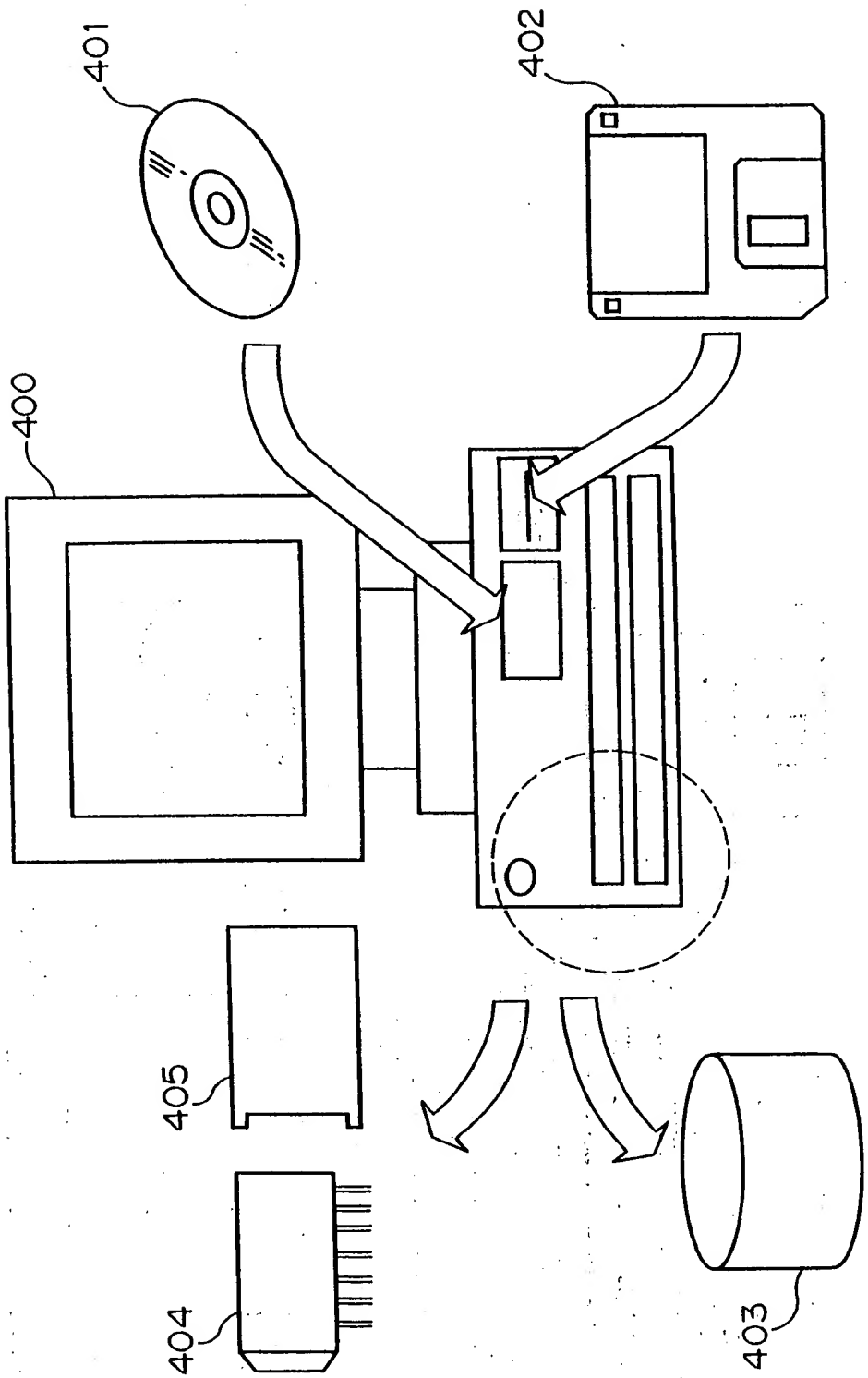


FIG. 7